



K alchem International, Inc
Compounding Chemicals You Can Trust

PRODUCT:	KETAMINE HYDROCHLORIDE, USP	EXPIRATION DATE:	09/30/2023
FINISHED LOT NO:	18K09-U06-048861	MFG DATE:	09/14/2018
CAS#	1867-66-9	SPECIFICATIONS:	USP
MANUFACTURE:	CU CHEMIE UETIKON GmbH	COUNTRY OF ORIGIN:	GERMANY

Certificate of Analysis

TEST CRITERIA	SPECIFICATIONS	RESULTS
DESCRIPTION	White, crystalline powder, having a slight, characteristic odor	Conforms
SOLUBILITY	Freely soluble in water; soluble in alcohol	
IDENTIFICATION A=IR	Conforms	Conforms
IDENTIFICATION B=UV	Conforms	Conforms
OPTICAL ROTATION	0.0°±0.2°	0.0°
ASSAY	98.0% -102.0%	99.9%
Clarity/Color Solution	Clear and colorless	Clear and colorless
Residue on Ignition	NMT 0.1%	0.0%

Related compounds	≤0.1 % of ketamine related compound A	0.0%
Related compounds (unknown)	≤0.3% Ketamine peak area	0.0%
Related compounds (total)	≤1.0% of Ketamine peak response	0.0%
pH	3.5 – 4.1	4.0
ELEMENTAL IMPURITIES	Conforms	Conforms
Residual Solvents	Conforms	Conforms
CONCLUSION: Product is in conformity with the requirements of the Current USP		

DATE OF RELEASE: _____ **ANALYSIS #** _____

APPROVED BY/ DATE: _____

Kalyn R Tabor, Quality Control